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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/996,342	11/21/2001	Tohmas Eugene Waschura	WASC1821	1977
7590 01/12/2005 DOUGLAS A CHAIKAN, ESQ. PENISULA IP GROUP A PROFESSIONAL LAW CORPORATION 26150 BUCKS RUN CORRAL DE TIERRA, CA 93908			EXAMINER	
			LAU, TUNG S	
			ART UNIT	PAPER NUMBER
			2863	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summer		09/996,342	WASCHURA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Tung S Lau	2863			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period ourse to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>06 D</u>	<u>ecember 2004</u> .				
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.				
3)□	<u>-</u>					
Disposit	ion of Claims					
5)						
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen						
1) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date		Patent Application (PTO-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12-6-2004 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 7, 8, 9, 15, 16, 2, 3, 4, 5, 6, 10-14 are rejected under 35 U.S.C. 102(a) as being anticipated by Thomas Eugene, James Roger, Robert Lee (EP 1143654).

Regarding claim 1:

Thomas Eugene, James Roger, Robert Lee disclose apparatus for measuring characteristics of a bit stream of binary pulses comprising control means for defining a window comparator (abstract, fig. 2, unit 203, 200), and logic means for accumulating time and voltage event counts (Col. 4-6, section 0017-0019) of

the bit stream pulses falling within voltage threshold and points inside the window comparator during durations of the binary pulse bit stream and drawing eye diagrams therefrom defining the bit stream characteristics (fig. 2, unit 200, 203, 20, 3, fig. 3, unit 21111, fig. 4, unit 21120).

Regarding claim 7:

Thomas Eugene, James Roger, Robert Lee disclose apparatus for measuring characteristics of a bit stream of binary pulses comprising control means for defining a window comparator of an array of columns and rows defining points for accumulating voltage counts of the binary pulse bit stream at time offsets during defined durations of the binary pulse bit stream (abstract, fig. 2, unit 203, 200), and apparatus for creating a voltage threshold window that moves between minimum and a maximum voltage levels (Col. 4-6, section 0017-0019, fig. 3, unit 21111, fig. 4, unit 21120) with each row of the array and for accumulating counts of voltage levels of the binary pulses occurring at the time offsets of the bit stream during a duration time when the pulse voltage levels are within the voltage threshold window at each row and column point of the array and displaying the array column and row points of the accumulated time and voltage counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6).

Regarding claim 8:

Thomas Eugene, James Roger, Robert Lee disclose apparatus for measuring characteristics of a bit stream of binary pulses comprising first control means for

defining a window comparator of an array of columns and rows defining points for accumulating event counts at time offsets during defined duration times of the binary pulse bit stream, second control means for creating a voltage threshold window that moves between a minimum and maximum voltage threshold with each row of the array, logic means for detecting voltage levels of the binary pulses occurring at time offsets of the bit stream when the pulse voltage levels are within the voltage threshold at each row and column point of the array (fig. 2. 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6), first counter means for accumulating counts of the detected binary pulse voltage levels at time offsets during each defined duration time of the binary pulse bit stream in a column and row point of the array (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6), second counter means for determining duration of periods of the binary bit stream in which to accumulate the detected binary pulse voltage levels at each point of; the array, and monitor apparatus for displaying the array column and row points of the accumulated event counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6).

Regarding claim 9:

Thomas Eugene, James Roger, Robert Lee disclose a method for determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator, and accumulating various voltage counts (Col. 4-6, section 0017-0019, fig. 3, unit 21113, 21114-21117) of the bit stream pulses at time

offsets during defined duration times of the binary pulse bit stream within voltage threshold at points inside the window comparator and drawing an eye diagram therefrom defining the bit stream pulse characteristics (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6, Col. 4-6, section 0017-0019).

Regarding claim 15:

Thomas Eugene, James Roger, Robert Lee disclose a method for determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator of an array of columns and rows defining points for accumulating event counts of the binary pulse bit stream at time offsets during defined durations of the binary pulse bit stream creating a voltage threshold window that moves between a minimum voltage and a maximum voltage at each row of the array (Col. 4-6, section 0017-0019, fig. 3, unit 21113, 21114-21117) and accumulating counts of voltage levels of the binary pulses occurring at time offsets of the bit stream during a duration time when the pulse voltage levels are within the voltage threshold window at each row and column point of the array and displaying the array column and row points of the accumulated event counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 3, unit 21119-21118, fig. 4, unit 21121-21127, fig. 5, 6).

Regarding claim 16:

Thomas Eugene, James Roger, Robert Lee disclose a method for determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator of an array of columns and rows defining points for

accumulating event counts at time offsets during defined duration times of the binary pulse bit stream creating a voltage threshold window that moves between defined voltage levels at each row of the array detecting voltage levels of the binary pulses occurring at the time of the bit stream when the pulse voltage levels are within the voltage threshold window at each row and column point of the array accumulating counts of the detected binary pulse voltage levels at the time offsets in a column and row point of the array and displaying the array column and row points of the accumulated time and voltage counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6).

Regarding claims 2, 3, 4, 5, 6, 10-14:

Thomas Eugene, James Roger, Robert Lee disclose the level of voltage is programmable of the array (fig. 3, unit 21110-21118, fig. 4, unit 21120-21127); using threshold voltage windows (fig. 3, unit 21110-21118, fig. 4, unit 21120-21127); using counter means for the stream (fig. 2, unit 203, 211; fig. 3, unit 21110-21118, fig. 4, unit 21120-21127); displaying array (fig. 2, unit 3, fig. 5, 6), accumulating counts, offset value (fig. 2, unit 3, fig. 5, 6, fig. 3, unit 21110-21118, fig. 4, unit 21120-21127).

Response to Arguments

3. Applicant's arguments filed 12/6/2004 have been fully considered but they are not persuasive.

A. Applicant argues in the lengthy arguments that the prior art does not show 'measuring characteristics of a bit stream of binary pulses comprising control means for defining a window comparator, and logic means for accumulating time and voltage event counts of the bit stream pulses falling within voltage threshold and points inside the window comparator during durations of the binary pulse bit stream and drawing eye diagrams therefrom defining the bit stream characteristics'. Thomas Eugene, James Roger, Robert Lee disclose apparatus for 'measuring characteristics of a bit stream of binary pulses comprising control means for defining a window comparator (abstract, fig. 2, unit 203, 200), and logic means for accumulating time and voltage event counts (Col. 4-6, section 0017-0019) of the bit stream pulses falling within voltage threshold and points inside the window comparator during durations of the binary pulse bit stream and drawing eye diagrams therefrom defining the bit stream characteristics (fig. 2, unit 200, 203, 20, 3, fig. 3, unit 21111, fig. 4, unit 21120)'.

B. Applicant continues to argue in the lengthy arguments that the prior art does not show 'for measuring characteristics of a bit stream of binary pulses comprising control means for defining a window comparator of an array of columns and rows defining points for accumulating voltage counts of the binary pulse bit stream at time offsets during defined durations of the binary pulse bit stream, and apparatus for creating a voltage threshold window that moves between minimum and a maximum voltage levels with each row of the array and for accumulating counts of voltage levels of the binary pulses occurring at the

time offsets of the bit stream during a duration time when the pulse voltage levels are within the voltage threshold window at each row and column point of the array and displaying the array column and row points of the accumulated time and voltage counts as an eye diagram defining characteristics of the bit stream of binary pulses'. Thomas Eugene, James Roger, Robert Lee disclose apparatus for 'measuring characteristics of a bit stream of binary pulses comprising first control means for defining a window comparator of an array of columns and rows defining points for accumulating event counts at time offsets during defined duration times of the binary pulse bit stream, second control means for creating a voltage threshold window that moves between a minimum and maximum voltage threshold with each row of the array, logic means for detecting voltage levels of the binary pulses occurring at time offsets of the bit stream when the pulse voltage levels are within the voltage threshold at each row and column point of the array (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6), first counter means for accumulating counts of the detected binary pulse voltage levels at time offsets during each defined duration time of the binary pulse bit stream in a column and row point of the array (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6), second counter means for determining duration of periods of the binary bit stream in which to accumulate the detected binary pulse voltage levels at each point of; the array, and monitor apparatus for displaying the array column and row points of the accumulated event counts as an eye diagram

defining characteristics of the bit stream of binary pulses (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6)'.

C. Applicant continues to argue in the lengthy arguments that the prior art does not show 'measuring characteristics of a bit stream of binary pulses comprising first control means for defining a window comparator of an array of columns and rows defining points for accumulating event counts at time offsets during defined duration times of the binary pulse bit stream, second control means for creating a voltage threshold window that moves between a minimum and maximum voltage threshold with each row of the array, logic means for detecting voltage levels of the binary pulses occurring at time offsets of the bit stream when the pulse voltage levels are within the voltage threshold at each row and column point of the array, first counter means for accumulating counts of the detected binary pulse voltage levels at time offsets during each defined duration time of the binary pulse bit stream in a column and row point of the array, second counter means for determining duration of periods of the binary bit stream in which to accumulate the detected binary pulse voltage levels at each point of; the array, and monitor apparatus for displaying the array column and row points of the accumulated event counts as an eye diagram defining characteristics of the bit stream of binary pulses'. Thomas Eugene, James Roger, Robert Lee disclose apparatus for 'measuring characteristics of a bit stream of binary pulses comprising first control means for defining a window comparator of an array of columns and rows defining points for accumulating event counts at time offsets

during defined duration times of the binary pulse bit stream, second control means for creating a voltage threshold window that moves between a minimum and maximum voltage threshold with each row of the array, logic means for detecting voltage levels of the binary pulses occurring at time offsets of the bit stream when the pulse voltage levels are within the voltage threshold at each row and column point of the array (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6), first counter means for accumulating counts of the detected binary pulse voltage levels at time offsets during each defined duration time of the binary pulse bit stream in a column and row point of the array (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6), second counter means for determining duration of periods of the binary bit stream in which to accumulate the detected binary pulse voltage levels at each point of; the array, and monitor apparatus for displaying the array column and row points of the accumulated event counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6)'. **D**. Applicant continues to argue in the lengthy arguments that the prior art does not show 'method for determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator, and accumulating various voltage counts of the bit stream pulses at time offsets during defined duration times of the binary pulse bit stream within voltage threshold at points inside the window comparator and drawing an eye diagram therefrom defining the bit stream pulse characteristics'. Thomas Eugene, James Roger, Robert Lee

disclose a method for 'determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator, and accumulating various voltage counts (Col. 4-6, section 0017-0019, fig. 3, unit 21113, 21114-21117) of the bit stream pulses at time offsets during defined duration times of the binary pulse bit stream within voltage threshold at points inside the window comparator and drawing an eye diagram therefrom defining the bit stream pulse characteristics (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6, Col. 4-6, section 0017-0019)'.

E. Applicant continues to argue in the lengthy arguments that the prior art does not show 'a method for determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator of an array of columns and rows defining points for accumulating event counts of the binary pulse bit stream at time offsets during defined durations of the binary pulse bit stream creating a voltage threshold window that moves between a minimum voltage and a maximum voltage at each row of the array and accumulating counts of voltage levels of the binary pulses occurring at time offsets of the bit stream during a duration time when the pulse voltage levels are within the voltage threshold window at each row and column point of the array and displaying the array column and row points of the accumulated event counts as an eye diagram defining characteristics of the bit stream of binary pulses'.

Thomas Eugene, James Roger, Robert Lee disclose a method for 'determining characteristics of a bit stream of binary pulses comprising the steps of defining a

window comparator of an array of columns and rows defining points for accumulating event counts of the binary pulse bit stream at time offsets during defined durations of the binary pulse bit stream creating a voltage threshold window that moves between a minimum voltage and a maximum voltage at each row of the array (Col. 4-6, section 0017-0019, fig. 3, unit 21113, 21114-21117) and accumulating counts of voltage levels of the binary pulses occurring at time offsets of the bit stream during a duration time when the pulse voltage levels are within the voltage threshold window at each row and column point of the array and displaying the array column and row points of the accumulated event counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 3, unit 21119-21118, fig. 4, unit 21121-21127, fig. 5, 6).

F. Applicant continues to argue in the lengthy arguments that the prior art does not show 'a method for determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator of an array of columns and rows defining points for accumulating event counts at time offsets during defined duration times of the binary pulse bit stream creating a voltage threshold window that moves between defined voltage levels at each row of the array detecting voltage levels of the binary pulses occurring at the time of the bit stream when the pulse voltage levels are within the voltage threshold window at each row and column point of the array accumulating counts of the detected binary pulse voltage levels at the time offsets in a column and row point of the array and displaying the array column and row points of the accumulated time

and voltage counts as an eye diagram defining characteristics of the bit stream of binary pulses'. Thomas Eugene, James Roger, Robert Lee disclose 'a method for determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator of an array of columns and rows defining points for accumulating event counts at time offsets during defined duration times of the binary pulse bit stream creating a voltage threshold window that moves between defined voltage levels at each row of the array detecting voltage levels of the binary pulses occurring at the time of the bit stream when the pulse voltage levels are within the voltage threshold window at each row and column point of the array accumulating counts of the detected binary pulse voltage levels at the time offsets in a column and row point of the array and displaying the array column and row points of the accumulated time and voltage counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6)'.

The examiner reminds to the applicants that during patent examination, the pending claims must be "given the broadest reasonable interpretation consistent with the specification." Applicant always has the opportunity to amend the claims during prosecution, and broad interpretation by the examiner reduces the possibility that the claim, once issued, will be interpreted more broadly than is justified. In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-51 (CCPA 1969).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung S Lau whose telephone number is 571-272-2274. The examiner can normally be reached on M-F 9-5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone numbers for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL

John Barlow

pervisory Fatent Examiner

Technology Center 2800